JAMES E. PRIEGER

Pepperdine University
School of Public Policy
24255 Pacific Coast Highway
Malibu, CA 90263-7490

Phone (office): (310) 506-7150
Fax: (310) 506-7494
Email: james.prieger@pepperdine.edu
URL: sites.google.com/a/pepperdine.edu/jprieger/

Education

Ph.D, Economics, University of California, Berkeley, 1999.
B.A, Economics and Mathematics, Yale University, 1990.

Professional Appointments

Current Appointment

Professor of Public Policy (with tenure), Pepperdine University, 2016-present.

Past Appointments

Associate Professor of Public Policy (with tenure), Pepperdine University, 2010-2016.
Visiting Scholar, Department of Economics, University of Colorado Boulder, Spring 2014.
Visiting Professor, Goldman School of Public Policy, University of California, Berkeley, Fall 2013.
Associate Professor of Public Policy, Pepperdine University, 2006-2010.
Senior Staff Economist, U.S. Federal Communications Commission, 2008-2009.
Assistant Professor of Economics, University of California, Davis, 1999-2006.

Memberships in Scholarly and Professional Organizations

Past and present memberships include: Academy of Criminal Justice Sciences, American Economic Association, American Law and Economics Association, Association for Public Policy Analysis and Management, Econometric Society, Eurasia Business and Economics Society, Industrial Organization Society, Society for Government Economists, Southern Economic Association, Transportation and Public Utilities Group, Western Economic Association.

Awards, Honors, and Fellowships

Howard A. White Award for Teaching Excellence, Pepperdine University, 2014.
Listing in *Who's Who in America*, 63rd ed., 2009.
Listing in *Who's Who Among American Teachers & Educators*, 11th ed., 2007.
Thomas Mayer Distinguished Teaching Award, Department of Economics, University of California, Davis, 2003.
Outstanding Graduate Student Instructor Award, 1996.
Regents Intern Fellowship, University of California, Berkeley, 1993-1997.

Major Grants and Funding

CKF, "Pepperdine SPP Student Research Fellowship Program," 2016-2017, $120,000, with Luisa Blanco.

Tilburg Law and Economics Center (TILEC), Innovation, Intellectual Property and Competition Policy Competition 2008, "Congestion Pricing for Patent Applications". April 2009, €15,000, with Alan Marco.

AEI-Brookings Joint Center for Regulatory Studies, "A New Approach to Estimating the Impact of Driver Cell Phone Use on Accidents," $39,400, December 2002, with Robert W. Hahn.

UC California Policy Research Center, "The Taxation of Telecommunications in California", $40,000, May 2001. Co-PI with Terri Sexton.

Other Grants

Provost's Grant, Office of the Associate Provost for Research, Pepperdine University, each academic year 2008-2009, 2010-2014 (new grants each year), and 2016-2017.

Undergraduate Instructional Improvement Program, Teaching Resources Center, University of California, Davis, 2003-2004.

Junior Faculty Research Program Grant, Institute for Governmental Affairs, 2002.

Junior Faculty Research Program Grant, Institute for Governmental Affairs, 2001.

Undergraduate Instructional Improvement Program, Teaching Resources Center, University of California, Davis, Minigrant, 2001, 2003.

Faculty Research Grant, University of California, Davis, 2000-2007.

Academic Senate Research Travel Award, 2000-2006.

New Faculty Research Grant, University of California, Davis, 1999-2000.

Professional Activities

Occasional Referee

Academic Journals: Agribusiness: an International Journal; Agricultural and Resource Economics Review; Applied Economics; The B.E. Journal of Economic Analysis & Policy; Community Development; Contemporary Economic Policy; Econometrics Journal; E-Commerce Research Journal; Empirical Economics; Entrepreneurship Research Journal; European Journal of Law and Economics; Foundations and Trends in Web Science; Global Business & Economics Review; Global Crime; Growth and Change; Information Economics and Policy; Information Systems Frontiers; International Journal of Advanced Media and Communication; International Journal of Environmental Research and Public Health; International Journal of Industrial Organization; International Regional Science Review; Journal of Applied Econometrics; Journal of Business and Economics; Journal of Economics; Journal of Information Policy; Journal of Insurance Regulation; Journal of Law & Economics; Journal of Law, Economics, & Organization; Journal of Media Economics; Journal of Public Economics; Journal of Regulatory Economics; Management Science; Managerial and Decision Economics; Mercatus Center Working Paper Series; Papers in Regional Science; Quarterly Journal of Economics; RAND Journal of Economics; Regional Studies; Review of Industrial Organization; Review of Network Economics; Social Science

Quarterly; Telecommunications Policy; Transportation Research Part A: Policy and Practice; Urban Studies.

Book and Chapter Proposals: Idea Group publishing, IGI Global, MIT Press, Praeger/ABC-CLIO Publishers, Routledge, Springer-Verlag.

Grant Proposals: National Science Foundation, Swiss National Science Foundation, University of California Energy Institute.

Other reviewing: Transportation and Public Utilities Group Dissertation Award.

Other Professional Activities

Editorial Board Member: Applied Economics Quarterly (2005-present), International Journal of Business Environment (2013-2018), The Internet of Things in the Modern Business Environment (an edited volume by IGI Global, 2016-2017), Handbook of Research on Telecommunications Planning and Management for Business (2007-2008).

Academic Advisory Board Member: The Free State Foundation.

Editorials in media:

"Net Neutrality Regulation, Investment, and the American Internet Experience," Free State Foundation, October 25, 2017

"What Do Economists Know About Net Neutrality Regulation? Quite a Lot, and the FCC Should Pay Attention," Free State Foundation, Sept. 6, 2017.

"Verizon-Incompas Business Broadband Plan Would Cost Billions in Investment," Morning Consult, Sept. 9, 2016

"California Needs to Focus on the Future of Communications… Not the Past," Fox & Hounds, April 7, 2016.

"Net neutrality policy and the future of your Internet," The Hill, Congress Blog, Sept. 14, 2014.

"Taxes - a cautionary tale" (with D. Davenport), San Francisco Chronicle, Feb. 2, 2009.

"Cell-phone bill based on faith, not research" (with D. Davenport), San Francisco Chronicle, Sept. 14, 2006.

Interviewed or quoted in the media: Forbes Magazine (Americans With Disabilities Act); American City Business Journals, Dateline UCDavis, Government Technology magazine, KCBS San Francisco radio, KCRA TV Sacramento, KFBK Sacramento radio, KMAX UPN TV Sacramento, KXJZ Capitol Public Radio, KVIE Central Valley Public Television, Los Alamos National Laboratory News Bulletin, News-Medical.net, RCR Wireless News, Los Angeles Times, Sacramento Business Journal, San Francisco Business Times, Telematics Update, UC Davis Magazine (cell phone usage in cars); Woodland Daily Democrat, KCSN Northridge radio (telecommunications taxation); Los Angeles Times, Black Issues in Higher Education (digital divide); Broadcasting & Cable, C-SPAN, Communications Daily (multiple times), Satellite News (broadband and productivity); ComputerWorld, Industry Standard, InfoWorld, NetworkWorld, PCWorld, Pepperdine Magazine, US News & World Report (broadband demand policy); AEI TechPolicyDaily (entrepreneurship and growth; net neutrality, broadband policy).

Quoted or cited in government policy documents: FCC's National Broadband Plan, GAO (broadband).

Consultant or expert testimony experience: American Public Power Association (electricity rate structures); Ameritech (advanced telecom services); AT&T (local telecom competition, broadband stimulus); BOTEC Analysis Corporation, senior researcher (illicit market economics); CALinnovates (broadband policy); CenturyLink (wired communications policy); Mobile Future (wireless communications policy).

University Service

Pepperdine University

University Committees: University Library Committee, 2012-2014, 2015-present; Graduate and Professional Human Subjects Institutional Review Board, 2006-2008, 2009-2013, 2014-present; University Academic Council, 2015; Howard A. White Teaching Award Committee, 2015-present; University Grievance Committee, 2014-present; University Technology Faculty Steering Committee, 2016-present; University Faculty Council, 2017-2018.

Departmental Committees: Admissions Committee, 2015-present; SPP Review, Tenure, and Promotion Committee, 2012-2013; SPP Assessment Committee, 2008-present; Forstmann Scholarship Committee, 2007; Faculty Recruiting, 2006-2007.

Faculty Advisor, *Pepperdine Policy Review* (student journal), 2007-2008, 2009-2013, 2014-present.

University of California, Davis

University Committees: Tenure Review Ad Hoc Committee (observer), 2005; Grade Change Committee, 2003-2006; Tenure Review Ad Hoc Committee (observer), 2002.

Departmental representative to the Representative Assembly of the College of Letters and Sciences, 2002-2005.

Departmental Committees: Applied Microeconomics Seminar, 2001-2, 2005; Computer, 2002-2006 (chair 2003-2005); Industrial Organization Prelim Exam 2000-2005 (chair 2003); Recruiting, 2001-2002, 2003-2006; Undergraduate Advising, 1999-2006; Lecturer Evaluation, 2004; Undergraduate Studies, 2001-2002; Undergraduate Curriculum, 2002; Placement, 2000-2001.

Teaching

Professor, School of Public Policy, Pepperdine University, 2006-present (Associate until 2010). Teaching of MPP students: Applied Microeconomics of Public Policy (core microeconomics), Applied Econometrics, Advanced Econometrics, Economic Analysis of Antitrust and Regulation Policy, Economics and Policy of Science and Innovation.

Visiting Professor, Goldman School of Public Policy, University of California, Berkeley Fall 2013. Graduate (MPP students): Economics and Policy of Science and Innovation.

Assistant Professor, Department of Economics, University of California, Davis 1999-2006. Undergraduate: Intermediate Microeconomics, Economics of Antitrust and Regulation. Graduate: Economic Regulation, Applied Micro Seminar.

Primary Instructor, Department of Economics, University of California, Berkeley, Summer 1998. Intermediate Microeconomics.

Teaching Assistant, Department of Economics, University of California, Berkeley, 1995-1998. Intermediate Microeconomics (3 semesters), Industrial Organization.

Reader, Department of Economics, University of California, Berkeley. Graduate Time Series Analysis.

Research

Publications in Refereed Journals

"Cigarette Taxes and Illicit Trade in Europe" (with Jonathan D. Kulick). *Economic Inquiry*, Vol. 56, No. 3 (July 2018), 1706-1723. Earlier working paper version.

"Unintended Consequences of Cigarette Prohibition, Regulation, and Taxation" (with Mark Kleiman and Jonathan Kulick), *International Journal of Law, Crime and Justice*, Vol. 46, September 2016, 69–85.

"Countervailing Effects: What the FDA Would Have to Know to Evaluate Tobacco Regulations" (with M.A.R. Kleiman and J. Kulick), *Journal of Drug Policy Analysis*, Vol. 9, No. 1 (December 2016), 1-30.

"Economic Growth and the Optimal Level of Entrepreneurship" (with C. Bampoky, L. Blanco, and A. Liu), *World Development*, Vol. 82 (June 2016), 95–109.

"The Impact of Research and Development on Economic Growth and Productivity in the US States" (with. L. Blanco and J. Gu), *Southern Economic Journal*, Vol. 82, No. 3. Online appendix.

"Multimarket Contact and Strategy Entry Decisions," *International Journal of Business Environment*, Vol. 7, No. 4, 2015, 396-414.

"Evaluating the Impact of the American Recovery and Reinvestment Act's BTOP Program on Broadband Adoption" (with Janice Hauge). *Applied Economics*, Vol. 47, No. 60, 2015, 6553-6579.

"Violence in Illicit Markets: Unintended Consequences and the Search for Paradoxical Effects of Enforcement" (with Jonathan Kulick), *The B.E. Journal of Economic Analysis & Policy* (Contributions), Vol. 15, No. 3 (July 2015), 1263-1295.

"The Broadband Digital Divide and the Benefits of Mobile Broadband for Minorities," *Journal of Economic Inequality*, Vol. 13, No. 3 (September 2015), 373-400.

"Unintended Consequences of Enforcement in Illicit Markets" (with Jonathan Kulick), *Economics Letters* Vol. 125, No. 2 (November 2014), 295-297.

"Non-Electoral Civic Engagement in California: Why Does the State Lag the Nation?" (with Kelly M. Faltis), *California Journal of Politics and Policy* Vol. 5, No. 4 (October 2013), 671–710.

"A Basic Analysis of Entry and Exit in the US Broadband Market, 2005-2008" (with Michelle Connolly), *Review of Network Economics*, Vol. 12, No. 3 (September 2013), 229-270.

"The Broadband Digital Divide and the Economic Benefits of Mobile Broadband for Rural Areas," *Telecommunications Policy*, Vol. 37, No. 6-7 (July-August 2013), 483-502.

"Verifiable and Non-Verifiable Anonymous Mechanisms for Regulating a Polluting Monopolist" (with Nicholas J. Sanders), *Journal of Environmental Economics and Management*, Vol. 64, No. 3 (November 2012), 410–426.

"Oust the Louse: Does Political Pressure Discipline Regulators" (with Janice A. Hauge and Mark A. Jamison), *Journal of Industrial Economics,* Vol. 60, No. 2 (June 2012), 299–332.

"Applications Barriers to Entry and Exclusive Vertical Contracts in Platform Markets" (with Wei-Min Hu), *Economic Inquiry*, Vol. 50, No. 2 (April 2012), 435–452.

"French Automobiles and the Chinese Boycotts of 2008: Politics Really Does Affect Commerce" (with Canhui Hong, Wei-Min Hu, and Dongming Zhu), *The B.E. Journal of Economic Analysis & Policy*: Vol. 11 (2011), Iss. 1 (Topics), Article 26.

"Demand-Side Programs to Stimulate Adoption of Broadband: What Works?" (with Janice Hauge), *Review of Network Economics*, Vol. 9, No. 3, Article 4 (2010). Expanded version available at SSRN.

"Economics at the FCC, 2008-2009: Broadband and Merger Review" (with Michelle Connolly), *Review of Industrial Organization*, Vol. 35, No. 4 (December 2009), 387-417.

"Product Innovation, Signaling, and Endogenous Regulatory Delay," *Journal of Regulatory Economics*, Vol. 34, No. 2 (October 2008), 95-118.

"The Broadband Digital Divide and the Nexus of Race, Competition, and Quality" (with Wei-Min Hu), *Information Economics and Policy*, Vol. 20, No. 2 (June 2008), 150-167.

"Are Drivers Who Use Cell Phones Inherently Less Safe?" (with Robert W. Hahn), *Applied Economics Quarterly*, Vol. 53, No. 4 (2007), 327-352. Previously available as AEI-Brookings Joint Center Working Paper No. 07-10.

"The Impact of Cost Changes on Industry Dynamics," *Journal of Economics*, Vol. 91, No. 3 (July 2007), 211-243.

"Regulatory Delay and the Timing of Product Innovation," *International Journal of Industrial Organization*, Vol. 25, No. 2 (April 2007), 219-236.

"The Impact of Driver Cell Phone Use on Accidents," with Robert Hahn. *The B.E. Journal of Economic Analysis & Policy*, Vol. 6 (2006), Iss. 1 (Advances), Article 9. Previously available as AEI-Brookings Joint Center for Regulatory Studies Working Paper 04-14, July 2004. Designated an AEI-Brookings Joint Center Top 10 download in many months (downloaded over 1,100 times in first month after posting, 14,100 times as of August 2009).

"Bootstrapping the Conditional Moment Test for Parametric Duration Models," *Applied Economics Letters*, Vol. 10, No. 10 (15 August 2003), 597-600.

"The Supply Side of the Digital Divide: Is There Equal Availability in the Broadband Internet Access Market?" *Economic Inquiry*, Vol. 41, No. 2 (April 2003), 346-363.

"Regulation, Innovation, and the Introduction of New Telecommunications Services," *Review of Economics and Statistics*, Vol. 84, No. 4 (November 2002), 704-715.

"A Model for Regulated Product Innovation and Introduction with Application to Telecommunications," *Applied Economics Letters*, Vol. 9, No. 10 (15 August 2002) 625-629.

"A Flexible Parametric Selection Model for Non-Normal Data With Application to Health Care Usage," *Journal of Applied Econometrics* Vol. 17, No. 4 (2002), 367-392.

"Telecommunications Regulation and New Services: a Case Study at the State Level," *Journal of Regulatory Economics*, Vol. 20, No. 3 (November 2001), 285-305.

"Universal Service and the Telecommunications Act of 1996," *Telecommunications Policy*, Vol. 22, No. 1 (February 1998), 57-71.

"Ramsey Pricing and Competition: The Consequences of Myopic Regulation," *Journal of Regulatory Economics*, Vol. 10, No. 3 (November 1996), 307-322.

Book Chapters (Refereed)

"Microeconomics Aspects of E-Commerce" (with Daniel Heil). Ch.in *Encyclopedia of E-Commerce Development, Implementation, and Management* I. Lee (ed), Hershey, PA: IGI Global, 2016.

"Macroeconomic Aspects of E-Commerce" (with Daniel Heil). Ch.in *Encyclopedia of E-Commerce Development, Implementation, and Management* I. Lee (ed), Hershey, PA: IGI Global, 2016.

"An Update on Mobile Broadband Availability in the United States" (with Thomas Church). Ch.in *Encyclopedia of E-Commerce Development, Implementation, and Management* I. Lee (ed), Hershey, PA: IGI Global, 2016.

"Economic Implications of E-Business for Organizations" (with Daniel Heil). Ch. 2 (pp. 15-54) in *Handbook on E-Business Strategic Management*, F. Martínez-López (ed), Berlin: Springer-Verlag, 2013.

"Deployment of Mobile Broadband Service in the United States" (with Thomas Church). Ch. 1 (pp. 1-24) in *Mobile Services Industries, Technologies, and Applications in the Global Economy*, I. Lee (ed), Hershey, PA: IGI Global, 2012.

"The Macroeconomic Impacts of E-Business on the Economy" (with Daniel Heil). Ch. 1 (pp. 1-11) in *Encyclopedia of E-Business Development and Management in the Global Economy*, *Vol I*, I. Lee (ed), Hershey, PA: IGI Global, 2010. Expanded version available at SSRN.

"The Microeconomic Impacts of E-Business on the Economy" (with Daniel Heil). Ch. 2 (pp. 12-22) in *Encyclopedia of E-Business Development and Management in the Global Economy*, I. Lee (ed), Hershey, PA: IGI Global, 2010. Expanded version available at SSRN.

"The Empirics of the Digital Divide: Can Duration Analysis Help?" (with Wei-Min Hu), *Handbook of Research on Overcoming Digital Divides: Constructing an Equitable and Competitive Information Society*, E. Ferro, et al. (eds), Hershey, PA: IGI Global, July 2009.

"Is Regulation a Roadblock on the Information Highway?" (with Daniel Heil). In *Handbook of Research on Telecommunications Planning and Management for Business*, I. Lee (ed), Hershey, PA: IGI Global, 2009. Previously available under the title "The Rules of the Road or Roadblocks on the Information Highway? Regulation

and Innovation in Telecommunications" as AEI Center for Regulatory and Market Studies Working Paper 08-15, April 2008.

"Regulation and the Deployment of Broadband" (with Sunhwa Lee), in *Handbook of Research on Global Diffusion of Broadband Data Transmission, Vol. 1*, Y.K. Dwivedi, et al. (eds), Hershey, PA: IGI Global, 2008, pp.278-303.

"Competition in Broadband Provision and the Digital Divide" (with Wei-Min Hu), in *Handbook of Research on Global Diffusion of Broadband Data Transmission, Vol. 1*, Y.K. Dwivedi, et al. (eds), Hershey, PA: IGI Global, 2008, pp.241-259. Previously available under the title "The Timing of Broadband Provision: The Role of Competition and Demographics" as AEI-Brookings Joint Center for Regulatory Studies Working Paper 07-06, March 2007.

Other Refereed Publications

"The Taxation of Telecommunications in California in the Information Age," with Terri A. Sexton and Annette Nellen. Summary version: *Brief*, Policy Research Program, California Policy Research Center, Vol. 15, No. 4, April 2003. Complete report: *Detailed Research Findings*, Policy Research Program, California Policy Research Center, April 2003 (172 pp.).

"The Supply Side of the Digital Divide: Is There Redlining in the Broadband Internet Access Market?" *AEI-Brookings Joint Center for Regulatory Studies Working Paper 01-16*, December 2001. Designated an AEI-Brookings Joint Center Top 10 download in many months January 2002- August 2006 (downloaded over 9,300 times as of August 2006).

Non-Refereed Publications

"Mobile data roaming and incentives for investment in rural broadband infrastructure," Pepperdine University, School of Public Policy Working Papers. Paper 69. October 2017.

"What Do Economists Know About Net Neutrality Regulation? Quite a Lot, and the FCC Should Pay Attention," Free State Foundation, *Perspectives from FSF Scholars*, Vol. 12, No. 29, Free State Foundation, Sept. 6, 2017.

"The Growth of the Broadband Internet Access Market in California: Deployment, Competition, Adoption, and Challenges for Policy" (Research Brief). March 2016. Pepperdine University, School of Public Policy Working Papers, paper 62.

"The Broadcasters' Transition Date Roulette: Strategic Aspects of the DTV Transition" (with James Miller), *Journal on Telecommunications and High Technology Law,* Vol. 9, No. 2 (Spring 2011), 437-499. *JTHTL is a student-edited law journal.*

"The Taxation of Telecommunications in California in the Information Age," with Terri A. Sexton and Annette Nellen. *State Tax Notes*, Vol. 29, No. 11, September 15, 2003.

Entries for "Duke Energy," "Dynegy," "Daniel McFadden," "Reliant Energy," "SBC Communications," and "Verizon Communications," *Encyclopedia of Capitalism*, Syed B. Hussain (ed.), Facts on File, 2004.

Papers in Submission

"Synergies and Competition: Export Survival in Africa and Latin America," with three co-authors, in R&R at an economics journal.

Other Working Papers

"Empty Discarded Pack Data and the Prevalence of Illicit Trade in Cigarettes in California," with Jonathan Kulick, SSRN, February 2019.

"Tax Evasion and Illicit Cigarettes in California: Part IV— Smokers' Behavioral and Market Responses to a Tax Increase," with Jonathan Kulick, SSRN, February 2019.

"Tax Evasion and Illicit Cigarettes in California: Part I – Survey Evidence on Current Behavior," with Jonathan Kulick, SSRN, May 2018.

"Tax Evasion and Illicit Cigarettes in California: Part II – Smokers' Intended Responses to a Tax Increase," with Jonathan Kulick, SSRN, May 2018.

"Combating the Illicit Trade in Tobacco Products in California and at the National Level through Track and Trace (T&T) Mechanisms," with Michael DeFeo and Mark Kleiman, SSRN, March 2018.

"The Importance of Transportation, Broadband, and Intellectual Infrastructure for Entrepreneurship," with Heng Lu and Habi Zhang, Pepperdine University, School of Public Policy Working Papers, 68, 2017.

"Congestion Pricing for Patent Applications," with Alan C. Marco, SSRN Working Paper, August 2009.

"The Impact of the Americans with Disabilities Act on the Entry and Exit of Retail Firms," AEI-Brookings Joint Center for Regulatory Studies Working Paper 04-23, November 2004. Designated an AEI-Brookings Joint Center Top 10 download December 2004-June 2006 (downloaded over 7,861 times as of October 2009).

"An Empirical Investigation of Biased Survey Data and an Attempted Cure," UCD Working Paper 04-4, August 2004.

"Conditional Moment Tests for Parametric Duration Models," September 2000. Part of this paper is published as "Bootstrapping the Conditional Moment Test for Parametric Duration Models" (see *Publications in Refereed Journals* section above).

Regulatory and Legal Testimony and Filings

"Economic Scholars' Summary of Economic Literature Regarding Title II Regulation of the Internet" comments filed (jointly with four other economists) before the Federal Communications Commission in the Matter of Restoring Internet Freedom (WC Docket No. 17-108), July 2017.

"Investment in Business Broadband in Rural Areas: The Impacts of Price Regulation and the FCC's Blind Spot," filed by Invest in Broadband for America to the FCC in the matter of *Investigation of Certain Price Cap Local Exchange Carrier Business Data Services Tariff Pricing Plans, Special Access Rates for Price Cap Local Exchange Carriers, and Business Data Services in an Internet Protocol Environment*, August 2016.

Amicus brief ("Brief for Georgetown Center for Business and Public Policy and Thirteen Prominent Economists and Scholars in Support of Petitioners United States

Telecom Association [Et Al.]) filed re: United States Telecom Association, et al.,v. Federal Communications Commission and United States of America.

Letter filed with the Federal Communications Commission re Protecting and Promoting the Open Internet, GN Docket No. 14-28, (co-signed with 18 other economists), December 9, 2014.

Letter filed with the Federal Communications Commission re SBC Communications Inc. and AT&T Corp. Transfer of Control Applications, WC Docket No. 05-65 (co-signed with 13 other economists), October 17, 2005.

Testimony filed with the Arkansas Public Service Commission on behalf of AT&T in the matter of Impairment Analysis of Local Circuit Switching for the Mass Market (local telephone competition), March 2004.

"The Effects of Regulation on the Innovation and Introduction of New Telecommunications Services," *Attachment B to Petition of Ameritech to the FCC to Remove Barriers to Investment in Advanced Telecommunications Capability*, March 1998 and *Attachment to Comments by Ameritech to the FCC in the matter of Computer III Further Remand Proceedings*, March 1998.

Invited Presentations

"The Impact of E-Cigarette Regulation on Illicit Trade in Tobacco in the European Union," PEP Talks Research Seminar, Pepperdine University, March 2019.

"Tax Evasion, Illicit Trade, and Smokers' Responses to a Tax Increase: We raised taxes on cigarettes, tax receipts went down, so why didn't smoking?"

- Department of Economics, Ball State University, November 2018
- Georgia Tech School of Public Policy, November 2018.

"Broadband Availability and Use by Minorities," USC Annenberg School for Communication and Journalism, October 2018.

"Economic Lessons for Policy from 2016: The Case of Business Data Services," panel presentation at An Economic Summit: America's Digital Infrastructure 2017 and Beyond , Center for Business & Public Policy, Georgetown University McDonough School of Business, September 2016.

"Economic Growth and the Optimal Level of Entrepreneurship," Pepperdine University School of Public Policy Board of Visitors, February 2016.

"The Growth of the Broadband Internet Access Market in California," TechNet's State Policy Conference, San Francisco, December 2015.

"Cigarette Taxes and Illicit Trade in Europe," American Society of Criminology Annual Meeting, Washington, DC, November 2015.

Net Neutrality forum at California State University, Long Beach, (with several other participants), March 2015.

"Net Neutrality: FCC and Congressional Options and Alternative for an Open Internet," Digital Policy Institute webinar (with two other participants), October 2014.

"Multimarket Contact, Competition, and Broadband Provider Entry"

- Academia Sinica, Taiwan, April 2014.
- National Chengchi University, Taiwan, April 2014.

"Civic Engagement in California: Why Are We Behind?"

- Center on Civility & Democratic Engagement, Goldman School of Public Policy, University of California, Berkeley, December 2013.
- Davenport Institute, Pepperdine University, March 2012.

"The Broadband Digital Divide and the Benefits of Mobile Broadband for Minorities," Goldman School of Public Policy, University of California, Berkeley, November 2013.

"Mobile Broadband: Where We Are and Where We Could Go," Pepperdine University School of Public Policy conference on The Broadband Technology Explosion: Rethinking Communications Policy, Menlo Park, CA, June 2013.

"The Impact of Government Policies on Access to Broadband: Some Thoughts on What We Know," LBJ School of Public Affairs and the University of Texas at Austin conference on Digital Inclusion in Texas, April 2013.

"Congestion Pricing for Patent Applications," Workshop on Innovation, Intellectual Property and Competition Policy, Tilburg Law and Economics Center, Tilburg University, The Netherlands, December 2009.

"Policies for Boosting Broadband Demand," The Information Technology & Innovation Foundation, Washington, D.C., November 2009.

"Designing and Assessing Studies of the Impact of Broadband on Productivity," National Broadband Plan Workshop on Economic Growth, Job Creation, and Private Investment, Federal Communications Commission, Washington, D.C., August 2009 (invited panelist).

"Applications Barriers to Entry and Exclusive Vertical Contracts in Platform Markets"

- Federal Communications Commission, November 2008.
- Economic Analysis Group, Antitrust Division, U.S. Dept. of Justice, October 2008.

"The Economics and Policy of Regulation and Innovation," Peking University Shenzhen School of Business, Shenzhen, China, April 2008.

"An Empirical Analysis of Indirect Network Effects in the Home Video Game Market"

- University of Texas Arlington, October 2007.
- NET Institute Conference on Network Economics, Stern School of Business, NYU, April 2007.

"Perspectives on Economic Research Using Broadband-Related Data", panelist, Pew Charitable Trusts Workshop on Measuring Broadband, June 2006.

"New Estimates of Broadband Supply and Demand," Federal Communications Commission, May 2006.

"The Impact of the Americans with Disabilities Act on the Entry and Exit of Retail Firms"

- California Polytechnic State University, San Luis Obispo, January 2006.
- University of Richmond, January 2006.
- Vassar College, September 2005.
- NBER Summer Institute in Law and Economics, July 2005.
- University of California, Irvine, May 2003.

"The Impact of Driver Cell Phone Use on Accidents"

- Pepperdine University School of Public Policy, January 2006.
- Policy Watch Seminar Series, Institute for Governmental Affairs at UC Davis, October 2004.

- Department of Public Health Sciences and the Center for Health Services Research in Primary Care Joint Seminar, UC Davis, March, 2005.

"New Estimates of Broadband Supply and Demand," Internet Use in the Americas Workshop, NSF-Conacyt, Mexico City, June 2005.

"Broadband Entry and Demand: The Roles of Market Characteristics and Competition," The Economic Impacts of Technology Conference, UC Santa Cruz, December 2004.

"The Taxation of Telecommunications in California," presentation to the California State Senate Office of Research, September 2002.

Other invited presentations (before 2000) include seminars at Clemson, Georgia Tech, INSEAD, NIST Advanced Technology Program, UC Irvine, University of Florida.

Other Conference Presentations

"Organized Crime and Illicit Trade in Tobacco Products in California," Academy of Criminal Justice Science 56th Annual Meeting, Baltimore, March 2019

"The Importance of Broadband and other Infrastructure for Entrepreneurship," a Transportation and Public Utilities Group session at the 2019 ASSA Annual Meeting, Atlanta, January 2019.

"Tax Evasion, Illicit Trade, and Smokers' Responses to a Tax Increase"

- 86th International Atlantic Economic Society Conference, New York, October 2018.
- Western Economic Association International 93rd Annual Conference, Vancouver, Canada, June 2018.

"The Impact of E-Cigarette Regulation on Illicit Trade in Tobacco in the European Union," 26th Eurasia Business & Economics Society (EBES) Conference, Prague, October 2018.

"The Importance of Broadband and Other Infrastructure for Entrepreneurship," TPRC 46nd Annual Conference on Communication, Information and Internet Policy, American University Washington College of Law, Washington, DC, September 2018.

"Tax Evasion and Smokers' Intended Responses to a Tax Increase"

- 12th ISSDP Conference, Vancouver, Canada, May 2018
- 87th Annual Meetings of the Southern Economic Association, Tampa, November 2017.

"Empty Discarded Pack Data and the Prevalence of Illicit Trade in Cigarettes in California"

- American Society of Criminology Annual Meeting, Philadelphia, November 2017.
- 87th Annual Meetings of the Southern Economic Association, Tampa, November 2017.
- Association for Public Policy Analysis and Management (APPAM) Fall Research Conference, Chicago, November 2017. Poster session.

"Cigarette Taxes and Illicit Trade in Europe"

- An American Economic Association session at the 2017 ASSA Annual Meeting, Chicago, January 2017.

- Western Economic Association International 91st Annual Conference, Portland, July 2016.
- 81st International Atlantic Economic Conference, Lisbon, Portugal, March 2016.
- Eastern Economic Association 42nd Annual Conference, Washington, DC, February 2015.
- 85th Annual Meetings of the Southern Economic Association, New Orleans, November 2015.
- Association for Public Policy Analysis and Management (APPAM) Fall Research Conference, Miami, November 2015.

"Targeted Enforcement against Illicit Trade in Tobacco Products: How Best to Suppress Violence?"

- 86th Annual Meetings of the Southern Economic Association, Washington, DC, November 2016.
- American Society of Criminology Annual Meeting, New Orleans, November 2016.
- Association for Public Policy Analysis and Management (APPAM) Fall Research Conference, Washington, DC, November 2016.
- Society of Government Economists Annual Conference, Washington, DC, May 2016.

"New Data on the Prevalence of Illicit Trade in Cigarettes"

- 86th Annual Meetings of the Southern Economic Association, Washington, DC, November 2016.
- American Society of Criminology Annual Meeting, New Orleans, November 2016.
- Association for Public Policy Analysis and Management (APPAM) Fall Research Conference, Washington, DC, November 2016.
- Western Economic Association International 91st Annual Conference, Portland, July 2016.
- Society of Government Economists Annual Conference, Washington, DC, May 2016.

"Countervailing Effects: What the FDA Would Have to Know to Evaluate Tobacco Regulations,"

- 85th Annual Meetings of the Southern Economic Association, New Orleans, November 2015.
- Society of Government Economists Annual Conference, Washington, DC, May 2015.

"Measuring Outcomes from the American Recovery and Reinvestment Act's BTOP Program," American Economic Association/ASSA Annual Meeting, Boston, January 2015.

"Unintended Consequences of Tobacco Taxation and Regulation"

- Western Economic Association International 90th Annual Conference, Honolulu, July 2015.
- Midwest Economics Association Annual Meeting, Minneapolis, March 2015
- 84th Annual Meetings of the Southern Economic Association, Atlanta, November 2014.

- Association for Public Policy Analysis and Management (APPAM) Fall Research Conference, Albuquerque, NM, November 2014.
- 78th International Atlantic Economic Conference, Savannah, GA, October 2014.

"The Impact of Research and Development on Economic Growth and Productivity in the US States," Association for Public Policy Analysis and Management (APPAM) Fall Research Conference, Albuquerque, NM, November 2014

"Quality Competition in the Broadband Service Provision Industry," TPRC 42nd Annual Conference on Communication, Information and Internet Policy, George Mason University Law School, Arlington, VA, September 2014.

"Multimarket Contact, Competition, and Broadband Provider Entry"

- Conference on the Economics of Information and Communications Technologies, Telecom ParisTech, Paris, France, January 2014.
- Western Economic Association International 88th Annual Conference, Seattle, July 2013.

"A Basic Analysis of Entry and Exit in the US Broadband Market, 2005-2008"

- CEFAGE-UE 4th Workshop on the Economics of ICTs, University of Évora, Portugal, April 2013.
- Western Economic Association International 87nd Annual Conference, San Francisco, July 2012.
- International Industrial Organization Conference, George Mason University Law School, Arlington, VA, March 2012.

"French Automobiles and the Chinese Boycotts of 2008: Politics Really Does Affect Commerce"

- Western Economic Association International 86nd Annual Conference, San Diego, July 2011.
- International Industrial Organization Conference, University of British Columbia, May 2010.

"Oust the Louse: Do Political Pressures Discipline Regulators?"

- International Industrial Organization Conference, University of British Columbia, May 2010.
- Center for Research in Regulated Industries 28th Annual Eastern Conference, Skytop Lodge, Skytop, PA, May 2009.

"The Rules of the Road or Roadblocks on the Information Highway? Regulation and Innovation in Telecommunications," International Industrial Organization Conference, Ballston Center, Marymount University, May 2008.

"An Empirical Analysis of Indirect Network Effects in the Home Video Game Market,"

- Western Economic Association International 82nd Annual Conference, Seattle, July 2007.
- International Industrial Organization Conference, Coastal Georgia Center, Georgia Southern University, April 2007.

"The Impacts of the Americans with Disabilities Act on the Entry and Exit of Retail Firms"

- 2005 World Congress of the Econometric Society, London, August 2005.
- North American Summer Meeting of the Econometric Society, Providence, June 2004.

- International Industrial Organization Conference, Chicago, April 2004.
- North American Winter Meeting of the Econometric Society, San Diego, January 2004.

"New Estimates of Broadband Supply and Demand,"

- Western Economic Association International 80th Annual Conference, San Francisco, July 2005.
- Center for Research in Regulated Industries 18th Annual Western Conference, San Diego, June 2005.
- International Industrial Organization Conference, Georgia Tech, April 2005.
- Public Utility Research Center and London Business School Annual Telecommunications Conference, University of Florida, February 2005.

"Using a Cell Phone While Driving and Accident Risk," Western Economic Association International 79th Annual Conference, Vancouver, B.C., July 2004.

"Unbundling Requirements, State Regulatory Policies and Broadband Internet Access," Transportation and Public Utilities Group Annual Meeting, San Diego, January 2004.

"Did the Americans With Disabilities Act Cause Retail Firms to Fail?" Business and Economics Society International Conference, San Francisco, July 2003.

"The Impact of Cost Changes on Industry Dynamics," IOFest, Stanford University, October 2002.

"Recovering Firms' Arrival and Exit Rates from Count Data: The Impacts of the Americans with Disabilities Act" Western Economic Association International 77th Annual Conference, Seattle, July 2002.

"The Supply Side of the Digital Divide: Is There Redlining in the Broadband Internet Access Market?" Center for Research in Regulated Industries 15th Annual Western Conference, South Lake Tahoe, June 2002.

"Who's Jumping on the Broadband Wagon?" Western Economic Association International 76th Annual Conference, San Francisco, July 2001.

"Regulation, Innovation, and the Introduction of New Telecommunications Services: a Queuing Theoretic Approach," 2000 World Congress of the Econometric Society, Seattle, August 2000.

"Telecommunications Regulation and Product Innovation: the Role of Regulatory Delay," Western Economic Association International 75th Annual Conference, Vancouver, B.C., July 2000.

"Roadblocks on the Information Highway: Regulatory Obstacles to Innovation and Investment" (with and presented by Robert G. Harris), presentation at the MSU School of Public Policy Regulation Conference, Williamsburg, VA, 1997.

Other Conference Participation

Session organizer and presenter, "Smoking, Health, Illicit Trade, and Public Policy," Western Economic Association International 92nd Annual Conference, San Diego, June 2017.

Session organizer and presenter, "Issues in Illicit Tobacco: Violence, Terrorism, and Control Strategies," American Society of Criminology Annual Meeting, New Orleans, November 2016.

Session organizer, "Broadband, Regulation, and Market Performance," Western Economic Association International 87th Annual Conference, San Francisco, July 2012.

Presented on behalf of the authors and discussed "Regulation for Rural Broadband Providers: a Network-Based Approach," by Victor Glass *et al.*, Center for Research in Regulated Industries 25th Annual Western Conference, Monterey, CA, June 2012.

"Liberty and the Foundations of the Executive Branch," Liberty Fund Colloquium, Indianapolis, October 2010 (invited participant).

Dissertation

Regulation, Innovation, and the Introduction of New Telecommunications Services: A Queuing Theoretic Approach. University of California, Berkeley (Richard J. Gilbert, advisor), Spring 1999.

Personal

Citizenship: U.S.

Family: married, two children.